

[illegible]

FIGURE 1A

441	GAA GTG AAG TAC CCT TTT CCC ATG TCC AAC AGA GAC TAT GTC TAC CTT CGG CAG	450	459	468	477	486
E V K Y P F P M S N R D Y V Y L R Q						
495	CGG CGA GAC CTG GAC ATG GAA GGG AGG AAG ATC CAT GTG ATC CTG GCC CGG AGC	504	513	522	531	540
R R D L D M E G R K I H V I A R S						
549	ACC TCC ATG CCT CAG CTT GGC GAG AGG TCT GGG GTG ATC CGG GTG AAG CAA TAC	558	567	576	585	594
T S M P Q L G E R S G V I R V K Q Y						
603	AAG CAG AGC CTG GCG ATT GAG AGT GAC GGC AAG AAG GGG AGC AAA GTT TTC ATG	612	621	630	639	648
K Q S L A I E S D G K K G S K V F M						
657	TAT TAC TTC GAT AAC CCG GGT GGC CAA ATT CCG TCC TGG CTC ATT AAC TGG GCC	666	675	684	693	702
Y Y F D N P G G Q I P S W L I N W A						
711	GCC AAG AAT GGA GTT CCT AAC TTC TTG AAA GAC ATG GCA AGA GCC TGT CAG AAC	720	729	738	747	756
A K N G V P N F L K D M A R A C Q N						
765	TAC CTC AAG AAA ACC TAA GAA AGA GAA CTG GGA ACA TTG CAT CCA TGG GTT GAT	774	783	792	801	810
Y L K K T						

FIGURE 1B

TABLE 1

819	GTC	TCT	GGA	AGT	GCA	ACC	CAA	TGT	CTC	TGG	AAG	TGC	CAC	CTG	GAA	GTG	CCA	864
						828		837		846				855				
873	CCT	GGA	AGT	GTC	TCT	GGA	AGA	GCA	CCC	ACC	ACT	GTT	CAG	CCT	TCC	GCT	GTT	918
						882		891		900				909				
927	TCT	GTC	TTC	AGA	GGC	CTA	CAC	ACT	ACC	ACA	TCC	TTC	CTA	AGC	ATG	TTC	GCC	972
						936		945		954								
981	CAT	CCA	GCT	CAC	TCG	TCT	GCT	TCC	TTC	CTC	GCT	CCC	CCC	CAT	CCT	GGG	GCT	1026
						990		999		1008				1017				
1035	GCT	GCC	TTC	TTC	TAC	AGT	TCA	ATA	TGG	GGC	AGA	CTA	GGG	AAA	CCT	TTC	CTT	1080
						1044		1053		1062				1071				
1089	TAC	TAT	TAG	GAG	GGG	AAG	TCT	TCA	GTA	GGG	AAC	ACG	ATC	ATT	CCA	TTC	TGC	1134
						1098		1107		1116				1125				
1143	TTC	ACG	GGG	ATG	GGT	GGG	CGG	AGG	GAC	ACA	ACA	AAA	TTC	AAG	AAT	GAC	TAT	1188
						1152		1161		1170				1179				
1197	GGC	GGG	CTG	GCT	CTT	TTG	CAG	CTT	GTG	ATT	TCT	TCC	AGC	TTC	GGA	GGG	GCT	1242
						1206		1215		1224				1233				
1251	GGA	AGT	GGC	ATT	TCG	TTC	AGA	GCT	GAC	TTC	CAG	TGC	ACC	CAA	ACT	GGA	TGA	1296
						1260		1269		1278				1287				
1305	GCC	AAT	GTC	CAT	TTG	CCT	TAT	GCT	TTC	TGG	AGC	TGA	TTA	GGC	TGG	GAT	TTG	1350
						1314		1323		1332				1341				

FIGURE 1C

1359	1368	1377	1386	1395	1404
TGA TAA TCC AGT AAG TCT TTC CTC GTT CCT ACT TGT GGA GGA TCA GTA GCT GTT					
1413	1422	1431	1440	1449	1458
ATG ATG CCA GAC CAT TTG GAG AAG TAT CAG AGG CCT GAC CGG ACA CAT AAT ACG					
1467	1476	1485	1494	1503	1512
ACA ACC ACA TTT TTC CTC ATC ATC CAT GAG GAA ATG GAT GAT TTC TCT TTT CCA					
1521	1530	1539	1548	1557	1566
TAT GTC ACT GGG GGA AAG GCT GCC TGT ACC TCT CAA GCT TTG CAT TTT ACT GGA					
1575	1584	1593	1602	1611	1620
AAC TGA GGC GTC AAG ATG GCT GTG GCC AGC TAG CAA AAG CAA AGA TGC TTT GTG					
1629	1638	1647	1656	1665	1674
CAT AGC CTT GTG AAA AAG TAT CTT TCT ATG CAA TAA GAT GAA TTT TCC TCC CAG					
1683	1692	1701	1710	1719	1728
AAT ATT TAG AAA TGT AGA AGG GAT AAC AGT TCA CAG CCA GGT AAA ATT TAA CTG					
1737	1746	1755	1764	1773	1782
GTG GCT TAA TGA CTC TGC ACC TTT TTC TCA GGA ATT CTG CCT AAG TTG TCT GCC					
1791	1800	1809	1818	1827	1836
TTT TCT ACC ACC AAA AAG ACT TTT AGT TTT CTA TGC TTT CTC CTG AAT TTT GGT					
1845	1854	1863	1872	1881	1890
AGG GTA AGG TAT TTC TAT GTC AAA GGC ACA GCC TTG ATG ATC TCA GGG AAA AAT					

FIGURE 1D

TTTTTTT "TTTTTTTTT"

1899	1908	1917	1926	1935	1944
TTT AAT CAC TGT GTA TAA TGA TAC TGA ACC TTG ATT AAT AAC AGA AAT TCA GGA					
1953	1962	1971	1980	1989	1998
TGT AAA GCC ACA GAA TGG GAT TTA TTA ATG TGG GAT ACC TCA GAC TGT TTG TTT					
2007	2016	2025	2034	2043	2052
TCT TTC TGG GAA GAA AAG TGT GTT CTA TAA TGA ATA AAT ATA GAG TGG TTT TTA					

A 3'

FIGURE 1E

9	18	27	36	45	54
5' AGT ACT TGT GTC CGG GTG GTG GAC TGG ATT CGC TGC GGA GCC CTG GAA GCT GCC					
63	72	81	90	99	108
TTT CCT TCT CCC TGT GCT TAA CCA GAG GTG CCC ATG GGT TGG ACA ATG AGG CTG					
			M	T	R
			G	W	L
117	126	135	144	153	162
GTC ACA GCA GCA CTG TTA CTG GGT CTC ATG ATG GTG GTC ACT GGA GAC GAG GAT					
V T A A L L L L G L M M V V E D					
171	180	189	198	207	216
GAG AAC AGC CCG TGT GCC CAT GAG GAG GCC CTC TTG GAC GAG GAC ACC CTC TTT TGC					
E N S P C A H E A L L D E D T L F C					
225	234	243	252	261	270
CAG GGC CTT GAA GTT TTC TAC CCA GAG TTG GGG AAC ATT GGC TGC AAG GTT GTT					
Q G L E V F Y P E L L G N I G C K V V					
279	288	297	306	315	324
CCT GAT TGT AAC AAC TAC AGA CAG AAG ATC ACC ACC TCC TGG ATG GAG CCG ATA GTC					
P D C N N Y R Q K I T S W M E P I V					
333	342	351	360	369	378
AAG TTC CCG GGG GCC GTG GAC GGC GCA ACC TAT ATC CTG GTG ATG GTG GAT CCA					
K F P G A V D G A T Y I L V M V D P					

FIGURE 2A

387	GAT GCC CCT AGC AGA GCA GAA CCC AGA CAG AGA TTC TGG AGA CAT TGG CTG GTA	396	405	414	423	432
D A P S R A A E P R Q R F W R H W L V						
441	ACA GAT ATC AAG GGC GCC GAC CTG AAG GAA GGG AAG ATT CAG GGC CAG GAG TTA	450	459	468	477	486
T D I K G A A D L K E G K I Q G Q E L						
495	TCA GCC TAC CAG GCT CCC TCC CCA CCG GCA CAC AGT GGC TTC CAT CGC TAC CAG	504	513	522	531	540
S A Y Q A P S P A H S G F H R Y Q						
549	TTC TTT GTC TAT CTT CAG GAA GGA AAA GTC ATC TCT CTC CTG CCC AAG GAA AAC	558	567	576	585	594
F F V Y L Q E G K V I S L L P K E N						
603	AAA ACT CGA GGC TCT TGG AAA ATG GAC AGA TTT CTG AAC CGC TTC CAC CTG GGC	612	621	630	639	648
K T R G S W K M D R F L N R F H L G						
657	GAA CCT GAA GCA AGC ACC CAG TTC ATG ACC CAG AAC TAC CAG GAC TCA CCA ACC	666	675	684	693	702
E P E A S T Q F M T Q N Y Q D S P T						
711	CTC CAG GCT CCC AGA GGA AGG GCC AGC GAG CCC AAG CAC AAA AAC CAG GCG GAG	720	729	738	747	756
L Q A P R G R A S E P K H K N Q A E						

FIGURE 2B

765	774	783	792	801	810
ATA GCT GCC TGC TAG ATA GCC GGC TTT GCC ATC CGG GCA TGT GGC CAC ACT GCC					
I A A C					
819	828	837	846	855	864
CAC CAC CGA CGA TGT GGG TAT GGA ACC CCC TCT GGA TAC AGA ACC CCT TCT TTT					
873	882	891	900		
CCA AAT AAA AAA AAA ATC ATC CAG GGC TTG GTG CTT TGT 3'					

FIGURE 2C

1	M E L A A G S F S E E Q F W E A C A E L	3014759
1	M D P G A G A F S E E Q F R E A C A E L	GI 897693
21	Q Q P A L A G A D W Q L L V E T S G I S	3014759
21	Q R P A L S G A A W E L L V E T Q G I S	GI 897693
41	I Y R L L D K K T G L Y E Y K V F G V L	3014759
41	V Y R L L D Q Q T G L Y A Y K V F G V L	GI 897693
61	E D C S P T L L A D I Y M D S D Y R K Q	3014759
61	E D C L P D L L A D V Y M D L A Y R K Q	GI 897693
81	W D Q Y V K E L Y E Q E C N G E T V V Y	3014759
81	W D Q Y V K E L Y E K E C S G E T V V Y	GI 897693
101	W E V K Y P F P M S N R D Y V Y L R Q R	3014759
101	W Q V K Y P F P M S N R D Y V Y V R Q R	GI 897693
121	R D L D M E G R K I H V I L A R S T S M	3014759
121	Q E L D F E G Q K V H V I L A Q S T S E	GI 897693
141	P Q L G E R S G V I R V K Q Y K Q S L A	3014759
141	P Q F P E K S G V I R V K H Y K Q R L A	GI 897693
161	I E S D G K K G S K V F M Y Y F D N P G	3014759
161	I Q S D G K K G S K V F M Y Y F D N P G	GI 897693
181	G Q I P S W L I N W A A K N G V P N F L	3014759
181	G Q I P S W V I N W A A K N G V P N F L	GI 897693
201	K D M A R A C Q N Y L K K T	3014759
201	K D M V K A C Q N Y - K K T	GI 897693

FIGURE 3

1	M G W T M R L V T A A L L L G L M M V V	3126479
1	V - - - - - V S T S P T K L - - - - -	GI 1143527
21	T G D E D E N S P C A H E A L L D E D T	3126479
10	- - - - - - - - - - - - - - - - -	GI 1143527
41	L F C Q G L E V F Y P E L G - N I G C K	3126479
10	- - - - - V N V S Y N N L T V N L G N E	GI 1143527
60	V V P D C N N Y R Q K I T S W M E P I V	3126479
25	L T P T Q V K N Q P T K V S W - - - - -	GI 1143527
80	K F P G A V D G A T Y I L V M V D P D A	3126479
40	- - - D A E P G A L Y T L V M T D P D A	GI 1143527
100	P S R A E P R Q R F W R H W L V T D I K	3126479
57	P S R K N P V F R E W H H W L I I N I S	GI 1143527
120	G A D L K E G K I Q G Q E L S A Y Q A P	3126479
77	G Q N V S S G T V - - - - L S D Y I G S	GI 1143527
140	S P P A H S G F H R Y Q F F V Y L Q E G	3126479
93	G P P K G T G L H R Y V F L V Y K Q P G	GI 1143527
160	K V I S L L P K E N K T R G S W K M D R	3126479
113	S I T D - - T Q H G G N R P N F K V M D	GI 1143527
180	F L N R F H L G E P E A S T Q F M T Q N	3126479
131	F A N K H H L G N P V A G N F F - - - -	GI 1143527
200	Y Q D S P T L Q A P R G R A S E P K H K	3126479
147	- - - - - - - - - - - - - Q A K H E	GI 1143527
220	N Q A E I A A C	3126479
152	D	GI 1143527

FIGURE 4

05879401.061101

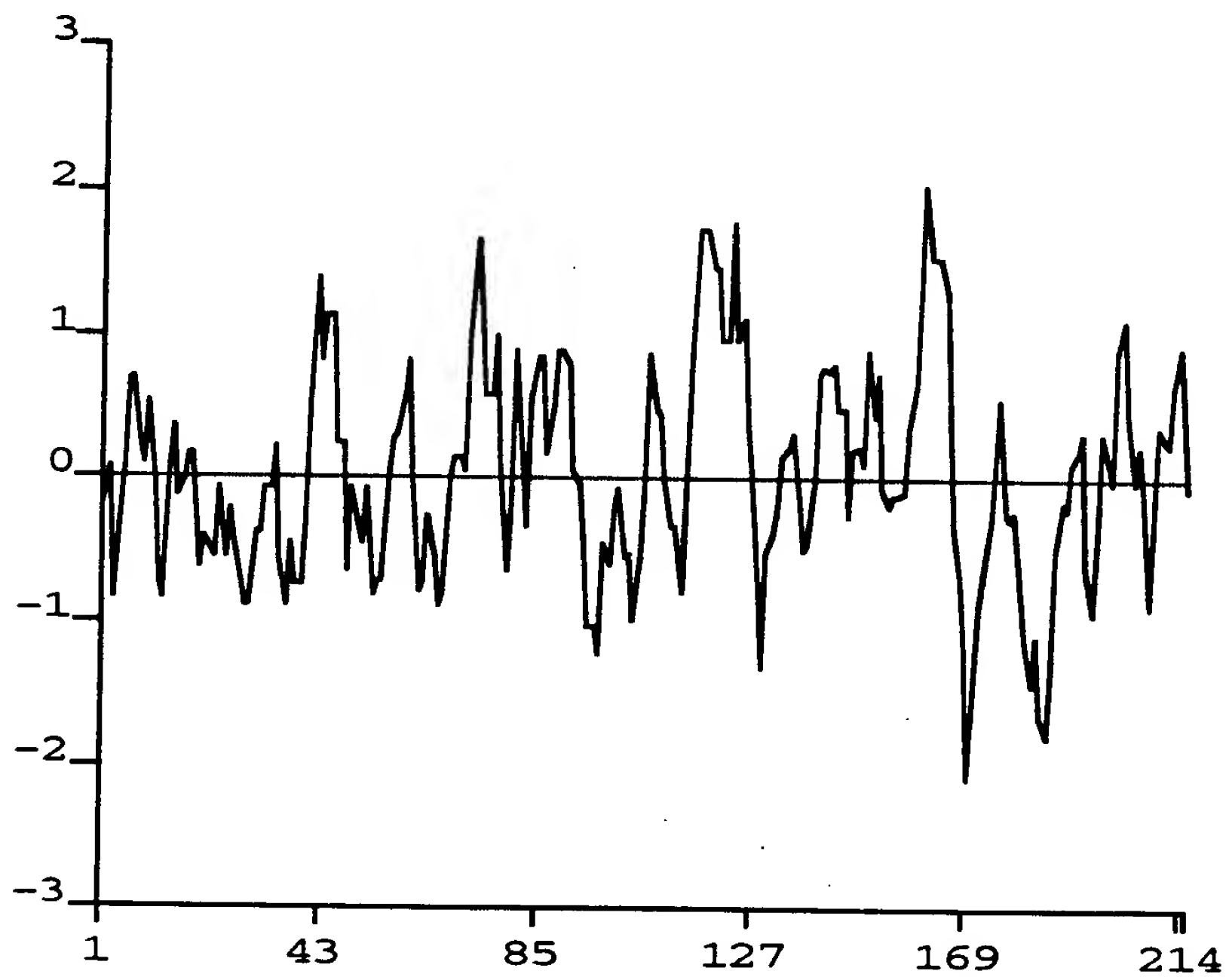


FIGURE 5A

09879401-061101
TOT 90" 10462860

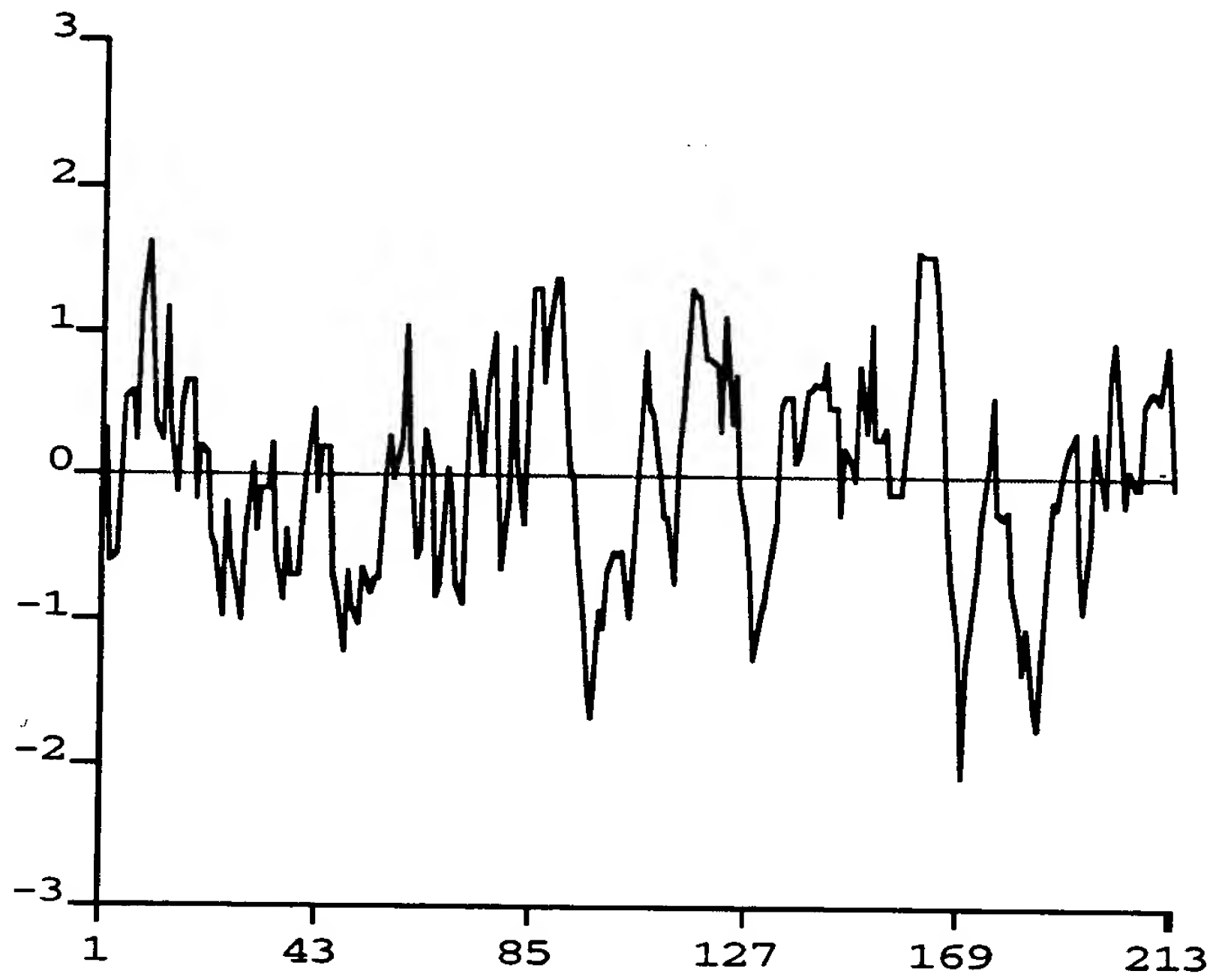


FIGURE 5B